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W. E. H.

An

Essay on Bilious Fever

By

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Of

Fredrick County

Virginia

1826

Bilious Fever

We still have the old adage by us
Nil dictum, quod non dictum fuit
In commencing the description & treat-
ment of a disease I am well aware of
the almost insurmountable difficulties,
which I have to encounter being practically
unacquainted with the stages of diseases &
the remedies suited to them - I shall however
console myself with the reflection that the
practice of medicine is not intuitive, & that
I am addressing gentlemen who know that
the speculative illusions of theorists although
mighty on paper will avail nothing by the
sickbed when the prospects of a rising
family, & perhaps the life of a very dear
friend, depend upon the knowledge that
you may have acquired of others or your
own personal experience - You gentle-
men must expect nothing from me but
plain matter of fact; I shall give you

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alone, my idea of ~~the~~ ^{of this disease} origin is attested by the
 observations of others & the treatment that
 I conceive the most judicious without
 being a slave to the opinions of any
 set of men or school, culling from
 all, whom I have considered distinguish-
 ed in the practice of this disease, viz-
 bilious fever as it occurred in the Union-
 ed States & particularly in the Valley
 of Virginia — That this disease has been
 epidemic since the discovery of this
 country is a fact known to all, but
 it is only within a few years past that
 it has made its appearance in the val-
 ley with the exception of the year eigh-
 teen hundred & four, it would seem that
 our mountains presented an insurmountable
 barrier to disease of almost every kind, until this
 Modern Hannibal spread desolation among
 us, to use the language of an elegant

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writer, forcing the few diseases that for-
 merly prevailed to wear its livery—
 But our Physicians Maximas like, particu-
 larly the gentleman, with whom
 I had the honour of studying have com-
 pletely divested it of its terrific garb
 & unless it should insidiously present it-
 self, we have nothing to fear as there
 was very little mortality during the last
 season & that principally confined to
 the poor who are generally deprived of
 the comforts & necessaries of life—I would
 set it down as an axiom, that bilious
 fever is the child of Miasmata, which
 of itself is produced from the com bi-
 nation of heat, moisture & vegetable
 matter & I did not think that a pro-
 misp broadly asserted, ought to be sup-
 ported by well attested facts—
 — The most essential circumstance

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connected with its origin is that heat
seems necessary to its production - Cold
climates are always exempt from it, the
farther you go South the violence of the
disease seems to move in a progressive
ratio; it never ~~arises~~ in the winter
rather raging in the fall - it is always
suspended by the first frost - Heat will
not however alone produce this disease.
The hottest ^{seasons} are the most healthy, Lin'd says
that the dry season in Senegal, the hottest
part of the year is healthy. The Arabs
living in the parched deserts are always
healthy, & the English who have tra-
ding companies on the African coast are
healthy until the rainy season comes
on, in Africa heat & ~~dryness~~ ^{pestilence} are synony-
mous & directly upon the coming on
of the wet season that sickness is
produced. In the valley the same thing

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during our driest & hottest seasons are the most
 healthy, except our rivers & marshes. Har-
 per's ferry afforded a striking example during
 the last season - the river being uncom-
 monly low the month of August always
 dry & hot is uniformly exempt from
 disease, & it is only after our periodical
 rains that bilious fever makes its
 appearance — It appears from the fore-
 going that moisture is also necessary
 for the production of this disease
 but moisture in excess so far from
 producing it acts beneficially;
 Bush says that the marshes of Du-
 aware are always healthy when over-
 flowed — The inhabitants of Prussia & Bra-
 bank have arrested bilious fevers by
 inundating their marshes — Dazille
 says that the marshes at Cayenne when
 inundated are more healthy than at

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any other time. Excessive rains long continued, always insures health to those living upon water courses, this was particularly observed at Shepherdstown & as per ferry, during our sickly seasons, whilst the belated fairs were moving with Giant staves, through our valley, these places on account of the inundation of their rivers were entirely exempt from disease, but conversely they are always sickly in proportion to the drought. Something more than heat & moisture is then necessary for the production. This I think may be easily shown I think by attending to the different situations that are most liable to it & the circumstances connected with those situations. We find that both in

the old & new world, that all those cities which have been the graves of unnumbered thousands were situated upon marshes or rivers — In the fall of eight hundred & twenty five this disease prevailed very extensively upon the Shenandoah, whilst in Charlestown only six miles distant, there were three cases, two physicians & a sheriff whose official duties frequently called ^{thence} to ~~there~~ render assistance that these cases were contracted there — The above testimony clearly shews that bilious fever is of miasmatic origin, but I think it not ~~un~~thing but fair to mention that some have supposed that mineral exhalations have produced the agent so important to its production,

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but our valley contains no mines &
 our mountains, where it is probable
 minerals exist are generally healthy
 except those that lie adjacent
 to the river — It has been dispu-
 ted & it is still a mooted point
 whether animal putrefaction has pro-
 duced this disease; the weight of opi-
 nion on both sides seems to be
 equally powerful — Galen says that
 the putrefaction of bodies left unbu-
 ried on the field of battle have caused
 this disease, he is powerfully suppor-
 ted in this assertion, particularly by
 Huxter, who says he was an eye witness
 to one thus produced, the putrefaction
 of a whale is said to have produced
 an epidemic in Holland & in the
 eastern states a fever is said to have
 been produced by the putrefaction

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of fish, the malignant fever, that prevailed in Pensacola was ascribed to the same cause. Notwithstanding all this weight of authority, I think, obstinately perhaps, that the foregoing testimony is chimerical, conjured up by the heated imaginations of men who in their endeavors to prove favourite doctrines let prejudice warp their reason for that animal putrefaction coexisting with disease, is purely accidental is proved by the undeniable fact that the land lying on rivers is literally covered with fish for the purpose of manure during the summer & singular as it may appear there never has been a disease produced by it. I could bring forward other proof to substantiate the above premises, such as inspection rivers, rivers & the vegeto animal.

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puta factum produced by our studies
 but I think the one mentioned so
 triumphant, that additional proof
 would be superfluous — Diagnosis
 This disease may known, by the
 vomiting of bilious matter, the sea-
 son of the year & the prevailing
 sickness — The symptoms are
 Dignitate pain in the head, back,
 & loins, aching in the bones, alter-
 nate changes of heat & cold, stiffness
 in the eyes, dulness, languor of the
 body, yawning & stretching, with the
 tongue covered with a yellow or green
 ish fur, with the sense of bitterness
 in the mouth, & the skin sallow.
 It is then ushered in with a cold-
 ness over the body, which is quick-
 ly succeeded by the fever, becom-
 ing confirmed — The patient.

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may be considered as doing well, when
 after a few days, if the pain in his
 head becomes easy, his skin moist
 & the pulse soft & slow. But if de-
 lirium, subultus tendinum, & coma
 recur, & the gastric uneasiness
 still continue, your patient's life
 is in jeopardy. The first thing
 to be attended to in the treatment
 of this disease is to moderate ar-
 terial ^{action} to effect which, there is
 nothing like blood letting, this
 may be either local or general. If
 the pulse is full & strong with a hot
 dry skin, the face flushed & the ^{eyes} stiff
 & impatient of light, I would bleed
 & continue it, until I had made
 some permanent impression on the
 system & feelings of my patient, in
 my opinion one good bleeding is much

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more effectual, than small bleedings,
 frequently repeated. But as Dr Chap-
 man wisely remarks, we must use
 the lancet with judgment, tempered
 by discretion. If taking blood from
 the system generally, does not relieve
 particular symptoms, we must use
 local bloodletting, to accomplish
 which, we must resort to cups, leeches,
 & arteriotomy, which seldom fail to
 produce the desired effect. Eme-
 tics are next in utility, they prove
 beneficial, by directly ridding the
 stomach of offensive matter, which
 sympathetically extends its influence
 throughout the system. I have seen
 patients after the operation of an eme-
 tic who had spent a sleepless night
 with a most distressing headache, be-
 coming in fact, unable to keep still &

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moment, directly become composed
 all unpleasant symptoms, leaving them
 with a moist soft skin gradually sink
 into a sweet calm sleep — I have so
 much confidence in ^{this} class of remedies,
 that I consider them as almost spe-
 cific in this disease, certainly I
 would never omit them without there
 was a constitutional objection, such
 as running pregnancy, internal inflam-
 mation, or a strong predisposition
 to apoplexy, as regards the continuance
 of this remedy it would depend alto-
 gether upon the effect produced.
 The best emetic that I have seen
 tried is the one recommended by
 Dr. Chapman, a combination of Ip-
 seacantha & I. Emetic twenty of the for-
 mer & one or two of the latter, the Ip-
 seac. gives promptness of operation to

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the emetic whilst the Antimony remains
 a sufficient time to evacuate the stomach
 properly. I have also seen a fine ef-
 fect from artificial cholera in this
 disease, produced by combining Cal-
 omel & Tartar — Cathartics are not
 in efficacy, they prove beneficial
 by evacuating the alimentary canal
 of bile & other offensive matter,
 as there is generally much excitement in
 this disease at the beginning & as
 there are exacerbations & remissions Dr
 Chapman advises us to watch for the
 remission before we give our medicine
 as it is apt to be quickly rejected, or
 remain in a quiescent state upon the sto-
 mach, would it not be proper to
 economize time instead of waiting for
 the remission as the salts are said
 to induce action to precede the drastic

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articles by a dose of some one of the three
 such as salta serena — The last pla-
 -thritic is a combination of Calomel & jalap
 or scaburbaria, assisted in its operation by
 some of the saline articles, I have seen
 great benefit derived from a mixture
 recommended by Dr Chapman & upon or
 by laudan salts, & emetic, lemon juice &
 water given in divided doses, this not
 keeps up a gentle evacuation but
 it removes constriction of the extreme
 vessels & thereby produces a moist, soft
 skin — Dr Cook recommends a combina-
 which I think highly useful in this dis-
 ease, Calomel, Jalap, Aloe, Scammony
 & Rhubarb, I have succeeded in getting
 stools brought away to the manifest
 relief of the patient — As the fever
 progresses we must keep the bowels
 open with clysters, particularly if the

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stomach is in a very irritable state &
 sometimes it is absolutely necessary on
 account of our inability to get the medi-
 cine to produce the desired effect —
 As regards the continuance of the ca-
 thartics, I would continue them as
 long as my patient had a furrowed tongue
 & sallow complexion & dark & poted
 stools; it is here that Calomel given
 in minute doses shews itself to be
 the Sampson of the chaster in
 Medicine, after having administered
 a dephomed quantity it must be
 then be worked off by salts con-
 joined with Laxatives — Diaphoretics
 are next highly important remedies in
 this disease, but there are no remedies that
 I would be more cautious in using, ^{than} as it
 have been found by experience, to
 aggravate all the symptoms when

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given at an improper time — They
 produce their beneficial effect by
 diminishing the quantity of circu-
 lating fluids, & by preventing, or re-
 moving congestion, determining the
 blood from the viscera to the extreme
 vessels — The best Diaphoretics are
 the James powder & tartar emetic I would
 prefer the latter as the former is fre-
 quently adulterated, it must be gi-
 ven from a fourth to an eighth of a
 grain — As to the operation of this
 medicine I think with Dr. Chepman
 that its produce is effect specifi-
 cally & not by nauseating as has been
 supposed, for the most nauseating
 articles do not produce diaphoresis
 & it is ^{rather} an axiom in na-
 ture ^{that no thing} will be in proportion to the
 nausea & consequently fever —

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Sometimes the stomach being too
irritable, we are unable to give an-
thin any, we must then substitute
something that will be grateful,
such as the saline mixture, the
disposition to produce perspira-
tion being assisted by sweet spirits
of nitre or antiseptic wine —
When there is too much excitement
the remedies mentioned above must
be cold and the Rhus powder substi-
tuted in their place, the Calomel
& tartar being omitted according to
circumstances; as an adjunct to
the above I have seen the most
decided benefit accrue from the
application of ice or cloths dipped
in ice water & laid upon the
forehead, but this was only when
there was a great deal of heat

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+ a determination to the head, it re-
 duces the circulation caused perspi-
 ration + composed the patient to
 sleep - Next there has been much
 Disputation about the propriety
 of using blisters + there are has been
 objected to by very high authority,
 but I would use them against all
 authority except ocular demon-
 stration, believing if the system
 is properly ^{prepared} by evacuation that
 they equalize the circulation +
 destroy the links of morbid assen-
 tion - This disease is frequent -
 kept up from advice and state
 of the liver we must here resort
 to Calomel as a dernier resource
 + gently salivated our patient
 this hardly fails to restore him
 to health - As to the treat-

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ment during convalescence, the whole se-
cret consists in attending strictly to
the patient's diet, in giving bark or
its essence quinine & in the use of no
porter or wine & by attending to the bow-
els, if this treatment is strictly continued
we need ^{never} fear a relapse —

H. H. H.

